

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
February 2004

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Governor
State of California

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Secretary for Resources
The Resources Agency

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of February 2004.

Statewide precipitation was 105 percent of average for the 2003-2004 water year as of February 29. Statewide runoff was 90 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: http://cdec.water.ca.gov/snow_rain.html.

On February 29, total storage in major SWP reservoirs was about 4.5 MAF, compared with about 3.7 MAF at this time in 2003. End of month storage at Lake Oroville was about 2.86 MAF as compared to 2.27 MAF last year. The State's share of San Luis Reservoir storage was about 972 TAF, as compared with 847 TAF at this time last year. The combined storage in our southern reservoirs was about 670 TAF, compared with about 604 TAF at this time last year.

Through February, SWP water deliveries for 2004 were about 384 TAF. This is a combination of project, transfer, and exchange waters. This is about 77 TAF more than delivered during the same period in 2003.

A dry 2nd half of January insured no Roe Island compliance was necessary in February.

Table 1. Antelope Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 22,566 ac-ft

February 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Jan 31	4992.63	14,804								
1	4992.59	14,775	-29	10	0	0	0	10	20	
2	4992.68	14,840	65	10	0	0	0	0	10	
3	4992.68	14,840	0	10	0	0	0	0	10	
4	4992.68	14,840	0	10	0	0	0	0	10	
5	4992.68	14,840	0	10	0	0	0	0	10	
6	4992.69	14,847	7	10	0	0	0	0	10	
7	4992.70	14,855	8	10	0	0	0	0	10	
8	4992.70	14,855	0	10	0	0	0	0	10	
9	4992.69	14,847	-8	10	0	0	0	2	12	
10	4992.69	14,847	0	10	0	0	0	0	10	
11	4992.69	14,847	0	10	0	0	0	0	10	
12	4992.69	14,847	0	10	0	0	0	0	10	
13	4992.68	14,840	-7	10	0	0	0	3	13	
14	4992.69	14,847	7	10	0	0	0	0	10	
15	4992.69	14,847	0	10	0	0	0	0	10	
16	4992.84	14,957	110	10	0	0	0	2	12	
17	4993.24	15,250	293	10	0	0	0	2	12	
18	4993.58	15,503	253	10	0	0	0	2	12	
19	4993.75	15,630	127	10	0	0	0	2	12	
20	4993.86	15,712	82	10	0	0	0	2	12	
21	4993.94	15,773	61	10	0	0	0	2	12	
22	4990.00	15,818	45	10	0	0	0	2	12	
23	4994.08	15,878	60	10	0	0	0	1	11	
24	4994.14	15,924	46	10	0	0	0	0	10	
25	4994.35	16,084	160	10	0	0	0	0	10	
26	4994.46	16,168	84	10	0	0	0	0	10	
27	4994.52	16,214	46	10	0	0	0	0	10	
28	4994.56	16,244	30	10	0	0	0	0	10	
29	4994.60	16,275	31	10	0	0	0	0	10	
Total cfs-days				---	290	0	0	30	320	
Total ac-ft				1,471	575	0	0	59	634	
									2,105	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

February 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Jan 31	5565.20	26,344								
1	5565.20	26,344	0	2	0	0	0	1	3	
2	5565.29	26,434	90	2	0	0	0	1	3	
3	5565.34	26,484	50	2	0	0	0	1	3	
4	5565.36	26,504	20	2	0	0	0	1	3	
5	5565.37	26,514	10	2	0	0	0	1	3	
6	5565.39	26,533	19	2	0	0	0	1	3	
7	5565.40	26,543	10	2	0	0	0	1	3	
8	5565.42	26,563	20	2	0	0	0	1	3	
9	5565.43	26,573	10	2	0	0	0	1	3	
10	5565.45	26,593	20	2	0	0	0	1	3	
11	5565.47	26,613	20	2	0	0	0	1	3	
12	5565.48	26,623	10	2	0	0	0	1	3	
13	5565.50	26,643	20	2	0	0	0	1	3	
14	5565.52	26,663	20	2	0	0	0	1	3	
15	5565.54	26,683	20	2	0	0	0	1	3	
16	5565.57	26,713	30	2	0	0	0	1	3	
17	5565.59	26,733	20	2	0	0	0	1	3	
18	5565.69	26,833	100	2	0	0	0	1	3	
19	5565.75	26,894	61	2	0	0	0	1	3	
20	5565.81	26,954	60	2	0	0	0	1	3	
21	5565.85	26,994	40	2	0	0	0	1	3	
22	5565.89	27,035	41	2	0	0	0	2	4	
23	5565.91	27,055	20	2	0	0	0	2	4	
24	5565.95	27,095	40	2	0	0	0	2	4	
25	5566.21	27,358	263	2	0	0	0	2	4	
26	5566.23	27,378	20	2	0	0	0	2	4	
27	5566.25	27,399	21	2	0	0	0	2	4	
28	5566.30	27,449	50	2	0	0	0	1	3	
29	5566.35	27,500	51	2	0	0	0	1	3	
Total cfs-days				---	58	0	0	35	93	
Total ac-ft				1,156	115	0	0	70	185	
									1,341	

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

February 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Jan 31	5764.20	46,932									
1	5764.17	46,845	-87	50	0	0	0	0	50	6	
2	5764.21	46,961	116	50	0	0	0	0	50	108	
3	5764.18	46,874	-87	50	0	0	0	0	50	6	
4	5764.15	46,787	-87	50	0	0	0	0	50	6	
5	5764.12	46,700	-87	50	0	0	0	0	50	6	
6	5764.09	46,613	-87	50	0	0	0	0	50	6	
7	5764.06	46,527	-86	50	0	0	0	0	50	7	
8	5764.03	46,440	-87	50	0	0	0	0	50	6	
9	5764.00	46,354	-86	50	0	0	0	0	50	7	
10	5763.96	46,238	-116	50	0	0	0	10	60	2	
11	5763.92	46,124	-114	50	0	0	0	10	60	2	
12	5763.89	46,037	-87	50	0	0	0	3	53	9	
13	5763.84	45,894	-143	50	0	0	0	23	73	1	
14	5763.80	45,780	-114	50	0	0	0	9	59	1	
15	5763.76	45,665	-115	50	0	0	0	9	59	1	
16	5763.89	46,037	372	50	0	0	0	2	52	240	
17	5764.02	46,411	374	50	0	0	0	2	52	241	
18	5764.07	46,555	144	77	0	0	0	2	79	152	
19	5764.04	46,469	-86	100	0	0	0	2	102	59	
20	5764.00	46,354	-115	100	0	0	0	3	103	45	
21	5763.98	46,296	-58	100	0	0	0	3	103	74	
22	5763.93	46,152	-144	100	0	0	0	3	103	30	
23	5763.89	46,037	-115	100	0	0	0	3	103	45	
24	5763.83	45,866	-171	100	0	0	0	3	103	17	
25	5763.96	46,238	372	100	0	0	0	3	103	290	
26	5763.97	46,267	29	100	0	0	0	3	103	118	
27	5763.91	46,095	-172	100	0	0	0	3	103	16	
28	5763.86	45,951	-144	100	0	0	0	3	103	30	
29	5763.80	45,780	-171	91	0	9	0	3	103	17	
Total cfs-days				---	2,018	0	9	0	102	2,129	
Total ac-ft				-1,152	4,003	0	18	0	202	4,223	
										3,071	

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

February 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Jan 31	822.74	2,458,925								
1	823.18	2,464,311	5,386	2,991	2	55	0	3,048	0	8,434
2	823.69	2,470,563	6,252	7,182	2	21	0	7,205	0	13,457
3	824.57	2,481,379	10,816	3,737	4	42	0	3,783	1,775	12,824
4	825.24	2,489,636	8,257	4,096	2	0	0	4,098	0	12,355
5	825.94	2,498,282	8,646	3,320	2	63	0	3,385	1,205	10,826
6	826.49	2,505,091	6,809	3,172	4	77	0	3,253	0	10,062
7	827.26	2,514,645	9,554	130	2	42	0	174	0	9,728
8	827.73	2,520,490	5,845	2,413	2	83	0	2,498	0	8,343
9	827.99	2,523,727	3,237	4,150	4	84	0	4,238	0	7,475
10	828.14	2,525,595	1,868	4,651	2	169	0	4,822	0	6,690
11	828.35	2,528,213	2,618	3,458	2	84	0	3,544	0	6,162
12	828.58	2,531,083	2,870	4,372	4	64	0	4,440	0	7,310
13	828.75	2,533,205	2,122	4,204	2	78	0	4,284	42	6,364
14	829.36	2,540,831	7,626	997	2	28	0	1,027	2,869	5,784
15	830.09	2,549,979	9,148	1,857	2	50	0	1,909	4,545	6,512
16	831.72	2,570,487	20,508	2,613	2	14	0	2,629	2,249	20,888
17	837.88	2,649,032	78,545	3,118	2	22	0	3,142	0	81,687
18	846.02	2,755,319	106,287	3,230	2	0	0	3,232	0	109,519
19	849.38	2,800,040	44,721	8,886	0	45	0	8,931	0	53,652
20	850.79	2,818,958	18,918	15,237	0	61	0	15,298	0	34,216
21	851.74	2,831,755	12,797	14,352	0	69	0	14,421	0	27,218
22	852.15	2,837,290	5,535	17,251	0	31	0	17,282	0	22,817
23	852.41	2,840,804	3,514	15,451	0	8	0	15,459	0	18,973
24	852.84	2,846,623	5,819	16,079	0	69	0	16,148	0	21,967
25	854.21	2,865,217	18,594	21,109	0	100	0	21,209	0	39,803
26	855.11	2,877,478	12,261	26,703	0	46	4,568	31,317	0	43,578
27	854.66	2,871,343	-6,135	27,291	0	15	12,286	39,592	0	33,457
28	854.32	2,866,713	-4,630	24,286	0	38	6,182	30,506	0	25,876
29	854.01	2,862,905	-3,808	22,747	0	77	3,802	26,626	0	22,818
Total		403,980	269,083	44	1,535	26,838	297,500	12,685	688,795	

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

February 2004

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Jan 31	22,894										
1	24,014	1,120	2,991	510	3,313	3,241	3	2	2,397	0	-51
2	23,497	-517	7,182	510	0	6,741	3	2	1,996	0	533
3	23,282	-215	3,737	510	1,667	3,116	3	2	1,567	1,775	334
4	23,953	671	4,096	599	1,390	4,167	3	2	1,214	0	-28
5	23,896	-57	3,320	424	1,101	2,657	3	2	1,189	1,205	154
6	24,618	722	3,172	508	0	1,878	3	2	1,194	0	119
7	24,018	-600	130	508	0	113	3	2	1,194	0	74
8	24,462	444	2,413	512	0	1,224	3	2	1,197	0	-55
9	23,660	-802	4,150	514	0	4,283	3	2	1,190	0	12
10	24,142	482	4,651	504	0	3,563	3	2	1,196	0	91
11	24,202	60	3,458	510	0	2,758	3	2	1,205	0	60
12	23,912	-290	4,372	508	0	4,103	3	2	1,213	0	151
13	24,428	516	4,204	514	842	3,887	3	2	1,208	42	98
14	24,055	-373	997	502	3,307	1,093	3	2	1,214	2,869	2
15	24,086	31	1,857	510	4,420	967	3	2	1,226	4,545	-13
16	23,729	-357	2,613	510	2,676	3,528	3	2	1,241	2,249	867
17	23,893	164	3,118	510	0	3,651	3	2	1,259	0	1,451
18	23,693	-200	3,230	540	0	4,125	3	3	1,263	0	1,424
19	23,050	-643	8,886	526	56	9,169	3	3	1,225	0	289
20	22,664	-386	15,237	466	0	15,057	3	3	1,216	0	190
21	23,458	794	14,352	514	0	13,102	3	3	1,223	0	259
22	23,568	110	17,251	502	0	16,743	3	3	1,231	0	337
23	23,925	357	15,451	494	0	14,652	3	3	1,233	0	303
24	23,353	-572	16,079	492	0	16,229	3	3	1,243	0	335
25	23,237	-116	21,109	512	0	21,659	3	3	1,273	0	1,201
26	22,240	-997	31,271	588	0	31,025	4	3	2,811	0	987
27	23,037	797	39,577	391	0	33,754	4	3	5,710	0	300
28	22,904	-133	30,468	508	0	24,421	4	3	4,873	0	-1,808
29	23,184	280	26,549	494	0	20,230	4	3	4,479	0	-2,047
Total		290	295,921	14,690	18,772	271,136	91	70	50,680	12,685	5,569

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ Includes 1 AF of entitlement water to Del Oro WD and 90 AF to Cal Water.

5/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

February 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Jan 31	133.90	46,326											
1	133.56	44,995	-1,331	3,241	0	0	0	0	1,186	3,313	-73	3,583	
2	134.99	50,698	5,703	6,741	0	0	0	0	1,577	0	539	3,573	
3	134.88	50,249	-449	3,116	0	0	0	0	1,980	1,667	82	3,547	
4	134.96	50,576	327	4,167	0	0	0	0	2,241	1,390	-209	3,455	
5	134.72	49,599	-977	2,657	0	0	0	0	2,261	1,101	-272	3,450	
6	134.60	49,114	-485	1,878	0	0	0	0	2,261	0	-102	3,455	
7	134.05	46,918	-2,196	113	0	0	0	0	2,241	0	-68	3,435	
8	133.72	45,619	-1,299	1,224	0	0	0	0	2,261	0	-262	3,458	
9	134.21	47,552	1,933	4,283	0	0	0	0	2,241	0	-109	3,431	
10	134.49	48,671	1,119	3,563	0	0	0	0	2,261	0	-183	3,457	
11	134.60	49,114	443	2,758	0	0	0	0	2,241	0	-74	3,446	
12	134.98	50,657	1,543	4,103	0	0	0	0	2,261	0	-299	3,474	
13	135.15	51,355	698	3,887	0	0	0	0	2,261	842	-86	3,469	
14	134.01	46,760	-4,595	1,093	0	0	0	0	2,241	3,307	-140	3,455	
15	132.50	40,961	-5,799	967	0	0	0	0	2,241	4,420	-105	3,467	
16	132.33	40,331	-630	3,528	0	0	0	0	2,241	2,676	759	3,482	
17	132.74	41,859	1,528	3,651	0	0	0	0	2,261	0	138	3,520	
18	132.89	42,425	566	4,125	0	0	0	0	3,709	0	150	4,972	
19	132.36	40,442	-1,983	9,169	0	0	0	0	10,532	56	-564	11,757	
20	132.79	42,047	1,605	15,057	0	0	0	0	12,734	0	-718	13,950	
21	132.68	41,634	-413	13,102	0	0	0	0	12,714	0	-801	13,937	
22	133.53	44,878	3,244	16,743	0	0	0	0	12,754	0	-745	13,985	
23	133.74	45,697	819	14,652	0	0	0	0	13,230	0	-603	14,463	
24	132.65	41,521	-4,176	16,229	0	0	0	0	19,696	0	-709	20,939	
25	131.46	37,175	-4,346	21,659	0	0	0	0	26,777	0	772	28,050	
26	131.34	36,750	-425	31,025	0	0	0	0	29,951	0	-1,499	32,762	
27	131.36	36,820	70	33,754	0	0	0	0	32,133	0	-1,551	37,843	
28	131.71	38,070	1,250	24,421	0	0	0	0	23,207	0	36	28,080	
29	131.25	36,432	-1,638	20,230	0	0	0	0	23,604	0	1,736	28,083	
Total				-9,894	271,136	0	0	0	0	257,298	18,772	-4,960	307,978

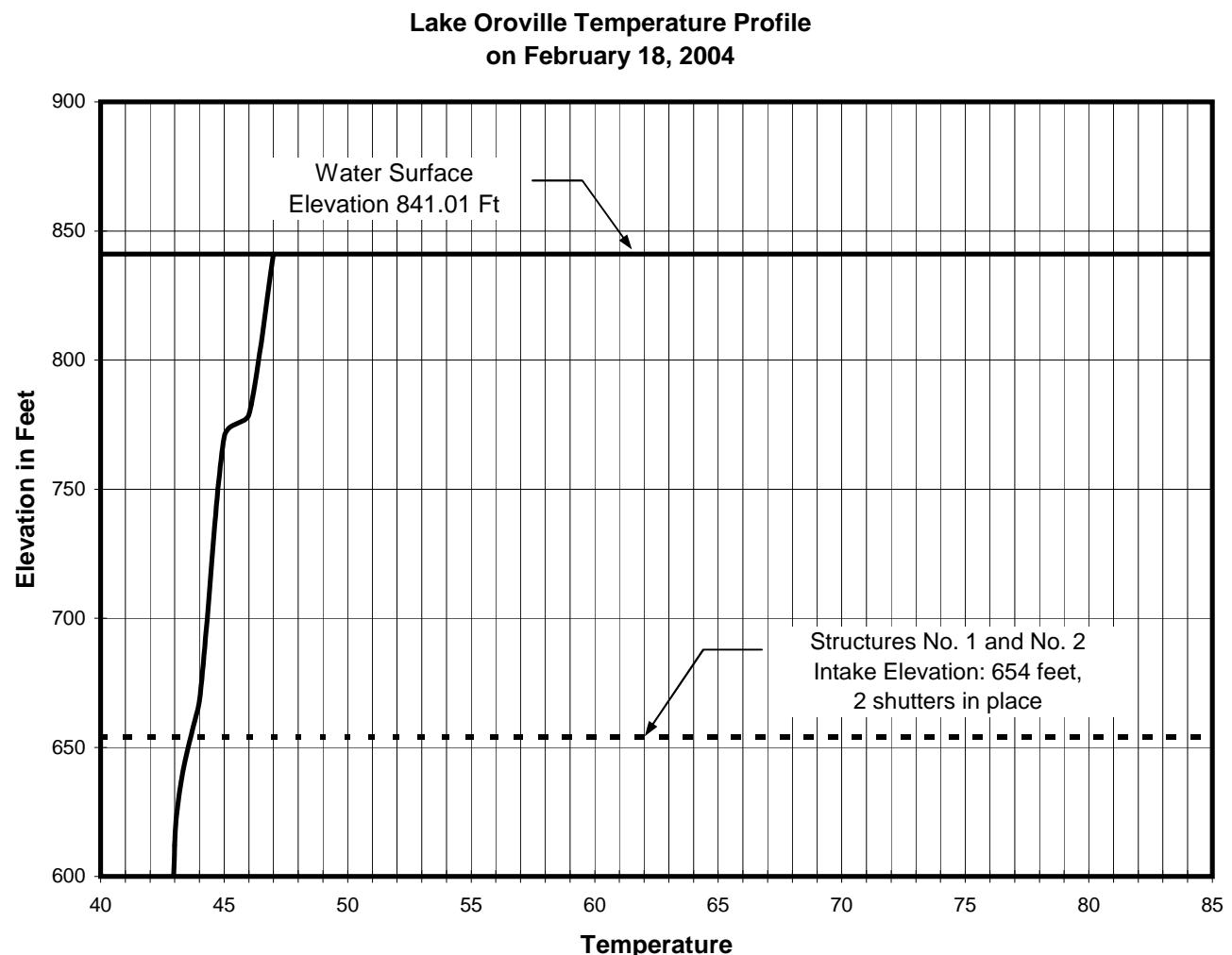
1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

Water Temperature Data
(in degrees Fahrenheit)
February 2004

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	46	45
2	46	45
3	46	44
4	46	45
5	46	45
6	46	45
7	46	45
8	46	45
9	47	45
10	47	45
11	47	45
12	47	45
13	47	45
14	47	45
15	48	46
16	48	46
17	49	46
18	49	46
19	50	47
20	50	45
21	49	45
22	48	45
23	47	45
24	47	45
25	47	45
26	46	45
27	45	46
28	46	46
29	47	46



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Table A Amount			Extended Table A Carryover		
	No.	Structure	Mile			M & I	Benicia	Vallejo			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)		1,572			99 216		
		Travis Surge Tank	8.78								
		8.80	Solano County Water Agency Travis Turnout		0						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	0						
				Solano County Water Agency Fairfield / Vacaville 42"	0						
	3A		17.00	Solano County Water Agency Central Solano	Stub				358 1 612 156		
		Cordelia Forebay	21.23								
		Cordelia Pumping Plant & Cordelia Spillway	21.30		1,127						
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	0						
				Solano County Water Agency Benicia	0						
3B	2	Cordelia Surge Tank	23.33						1 612 156		
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	1						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	612						
			27.60	Napa County Flood Control & WCD American Canyon 1	156						

Table 9. Delta Field Division Plant Data

(in acre-feet)

February 2004

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	50	39	9,367	9,367	247	0	0	0
2	55	39	9,278	9,278	240	0	0	0
3	54	40	8,005	8,005	224	0	0	0
4	58	33	7,016	7,016	242	0	0	0
5	55	38	11,734	11,734	220	0	0	0
6	58	38	9,991	9,991	209	0	0	0
7	51	37	10,201	10,201	224	0	0	0
8	54	41	12,550	12,550	214	0	0	0
9	53	36	12,899	12,899	224	0	0	0
10	64	47	12,401	12,401	224	0	0	0
11	60	40	12,639	12,639	224	0	0	0
12	62	40	12,633	12,633	224	0	0	0
13	58	41	12,647	12,647	224	0	0	0
14	50	37	12,591	12,591	224	0	0	0
15	53	41	12,889	12,889	235	0	0	0
16	45	37	12,745	12,745	227	0	0	0
17	67	42	11,227	11,227	224	0	0	0
18	51	34	14,146	14,146	206	0	0	0
19	44	35	14,471	14,471	208	0	0	0
20	54	37	14,723	14,723	173	0	0	0
21	50	39	15,200	15,200	144	0	0	0
22	48	37	14,747	14,747	141	0	0	0
23	53	39	14,716	14,716	128	0	0	0
24	55	38	14,514	14,514	140	0	0	0
25	54	40	13,502	13,502	131	0	0	0
26	50	39	14,048	14,048	142	0	0	0
27	57	41	14,827	14,827	149	0	0	0
28	57	45	15,407	15,407	139	0	0	0
29	52	37	15,152	15,152	132	0	0	0
Total	1,572	1,127	366,266	366,266	5,683	0	0	0

Table 10. Clifton Court Forebay

Daily Operation of Gates

February 2004

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	0:01	12:45	15:00	17:55					9,711
2	1:00	13:20							9,514
3	1:45	10:15							8,328
4	2:15	15:00	17:20	18:50					8,910
5	3:00	15:40	18:00	23:34					11,820
6	3:30	16:15	18:30	23:25					10,250
7	0:05	1:00	4:00	16:45	19:15	23:05			10,309
8	4:30	17:30	20:00	---					11,580
9	---	2:00	5:00	18:15	20:45				12,447
10	---	2:30	5:30	14:45	17:30	19:15	21:30	---	12,229
11	---	3:15	6:15	17:35	18:15	20:15	22:45	---	11,671
12	---	8:00	11:15	17:15	20:15	---			12,525
13	---	8:45	12:00	18:30	21:30	---			12,884
14	---	9:15	13:25	19:15	22:38	---			12,505
15	---	11:00	14:00	18:43					12,889
16	0:01	12:30	15:00	17:45					12,831
17	0:45	13:30	16:00	18:17					12,841
18	1:45	14:30	17:00	21:10					14,361
19	2:30	15:30	18:00	22:25					14,471
20	0:01	0:15	3:15	16:15	18:45	22:25			14,573
21	0:01	0:45	3:45	17:00	19:30	23:00			14,855
22	0:01	1:30	4:30	17:45	20:15	22:11			14,833
23	0:01	2:00	5:00	18:30	21:00	23:20			14,867
24	0:01	2:30	5:30	19:15	22:00	---			14,385
25	---	7:15	10:15	16:15	19:15	---			14,450
26	---	8:00	10:45	17:15	20:15	---			14,738
27	---	8:30	11:30	18:15	21:15	---			14,266
28	---	9:45	12:15	19:30	22:30	---			14,373
29	---	11:00	13:15	20:30	23:30	---			14,527
Total inflow for the month in AF:									367,943

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Local	Loan Water	Extended Table A Carryover		
	No.	Structure	Mile									
1		Banks Pumping Plant	3.32		366,266							
2A	1	South Bay Pumping Plant	4.49	Bethany Reservoir Inlet	5,683							
		Check No. 1	5.95									
		Check No. 2	12.01									
	3		12.47	Musco Olive	39							
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2B	8		42.46	Oak Flat Water District-A	0							
			42.9	Western Hills WD	0							
			43.81	Oak Flat Water District-B	10					10		
			44.64	Oak Flat Water District-C	7					7		
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	44					44		
				Oak Flat Totals:	61	0	0	0	0	61		
	10	Check No. 9	51.3									
	11	Check No. 10	56.86									
	12	Check No. 11	61.4									
			66.14	Veteran's Cemetery	1							
		Check No. 12	66.71		342,951							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Table A Amount	Purchase Pool A	Extended Table A Carryover	Local		
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	5,683			1			
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	1						
	2	Check No. 1	3.91								
2	3	Check No. 2	5.21					3			
			7.21	Zone 7 Altamont	3						
		Check No. 3	9.49	Zone 7 Patterson Inflow Exchange	0						
4	6			Zone 7 Patterson Project Water	730		730	657	226		
		4	Check No. 4	10.68							
		5	Check No. 5	12.29							
			13.55	Zone 7 Wente #1	0						
			14.16	Zone 7 Wente #2	0						
			14.31	Ising Project Water	0						
		Check No. 6	14.65								
			14.78	Zone 7 Arroyo Mocho Project Water	657						
		Check No. 7	16.38								
			16.57	Zone 7 Wente #3	0						
			16.69	Zone 7 Norman Nursery	0						
			16.70	Zone 7 Concannon Project Water	0						
		Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	0						
				(Flow into South Bay Aqueduct)	0						
5	8	Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Project Water	0		53	1,326	3		
				Arroyo Valle #1 & #2 Inflow Exchange	226						
				Lake Del Valle Recreation	3						
				Zone 7 Wente #5	0						
				So. Livermore Project	0						
6			19.20	So. Livermore Inflow Released	0						
				So. Livermore Stored Exchanged	0						
			19.21	Zone 7 - Kalthrof Detjens	0						
7		La Costa Tunnel	22.50	ACWD Vallecitos Project Water	0						
			25.97	City of San Francisco San Antonio	0						
8		Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water:	1,379						
				Inflow Released	0						
9		Santa Clara Pipeline	35.86	Inflow Exchange: S.C.V.W.D. Meter	0						
					2,677						

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

(in acre-feet except as noted)

February 2004

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valley	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Jan 31	686.69	29,429									
1	686.70	29,434	5	8	0	0	0	0	3	3	0.00
2	686.83	29,509	75	77	0	0	0	0	2	2	0.02
3	687.02	29,619	110	113	0	0	0	0	2	2	1.06
4	687.17	29,706	87	88	0	0	0	0	2	2	0.09
5	687.28	29,770	64	66	0	0	0	0	2	2	0.02
6	687.36	29,816	46	47	0	0	0	0	1	1	0.00
7	687.43	29,857	41	44	0	0	0	0	3	3	0.06
8	687.47	29,880	23	26	0	0	0	0	3	3	0.00
9	687.51	29,904	24	26	0	0	0	0	2	2	0.00
10	687.54	29,921	17	20	0	0	0	0	3	3	0.00
11	687.58	29,944	23	25	0	0	0	0	2	2	0.00
12	687.61	29,962	18	21	0	0	0	0	3	3	0.00
13	687.63	29,974	12	15	0	0	0	0	3	3	0.00
14	687.66	29,991	17	19	0	0	0	0	2	2	0.04
15	687.68	30,003	12	15	0	0	0	0	3	3	0.00
16	687.77	30,055	52	55	0	0	0	0	2	2	0.33
17	687.93	30,149	94	97	0	0	0	0	3	3	0.00
18	688.54	30,509	360	363	0	0	0	0	3	3	0.75
19	688.96	30,758	249	252	0	0	0	0	3	3	0.04
20	689.21	30,907	149	150	0	0	0	0	1	1	0.02
21	689.39	31,015	108	109	0	0	0	0	1	1	0.15
22	689.56	31,116	101	104	0	0	0	0	3	3	0.19
23	689.71	31,207	91	94	0	0	0	0	3	3	0.04
24	689.82	31,273	66	72	0	0	0	0	6	6	0.01
25	691.91	32,550	1,277	1,284	0	0	0	0	7	7	0.27
26	696.40	35,413	2,863	2,864	0	0	0	0	1	1	1.10
27	697.85	36,374	961	963	0	0	0	1	1	2	0.25
28	698.50	36,809	435	438	0	0	0	1	2	3	0.06
29	698.88	37,066	257	261	0	0	0	1	3	4	0.00
Total				7,637	7,715	0	0	0	3	75	78
4.50											

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

February 2004

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/ 3/		
Jan 31	220.10	43,411											
1	219.07	40,762	-2,649	0	3,107	0	4,680	0	3,845	5,678	6	406	
2	220.30	43,931	3,169	0	3,153	1,000	3,951	0	2,061	4,594	6	155	
3	220.22	43,723	-208	0	3,352	0	3,398	0	3,073	4,320	6	544	
4	219.88	42,841	-882	0	2,976	0	2,966	0	2,748	3,745	6	112	
5	219.81	42,660	-181	0	2,857	0	5,723	0	4,108	4,903	6	346	
6	220.49	44,427	1,767	0	3,053	0	4,747	0	2,230	4,928	8	257	
7	219.78	42,583	-1,844	0	2,925	0	4,911	0	4,220	4,808	7	269	
8	219.03	40,660	-1,923	0	2,523	0	5,752	0	4,425	5,066	7	254	
9	220.13	43,489	2,829	0	2,271	0	5,890	0	1,979	4,885	7	136	
10	220.59	44,688	1,199	0	2,048	584	5,831	0	2,680	5,385	7	213	
11	219.09	40,813	-3,875	0	1,884	0	5,795	0	3,820	6,100	7	294	
12	220.55	44,583	3,770	0	1,810	1,844	6,007	0	2,124	5,781	9	154	
13	220.64	44,818	235	0	1,713	0	5,821	0	1,889	6,037	7	517	
14	220.42	44,244	-574	0	1,569	0	6,053	0	2,024	5,845	7	-35	
15	219.36	41,503	-2,741	0	1,464	0	6,354	0	3,914	5,570	7	291	
16	219.44	41,708	205	0	1,445	0	5,692	0	2,236	5,247	7	456	
17	218.94	40,432	-1,276	0	1,435	0	5,186	0	2,267	5,197	7	207	
18	220.19	43,645	3,213	0	1,838	0	6,129	0	2,118	4,530	7	308	
19	221.40	46,810	3,165	0	2,030	0	6,853	0	3,348	4,226	9	296	
20	221.28	46,495	-315	0	1,918	0	7,427	0	5,084	4,489	7	76	
21	222.17	48,836	2,341	0	1,719	0	7,182	0	3,853	4,254	7	393	
22	221.14	46,128	-2,708	0	1,741	0	7,550	0	7,247	3,506	7	104	
23	223.10	51,313	5,185	0	1,777	0	6,990	0	3,196	2,824	7	-126	
24	222.65	50,113	-1,200	0	2,391	0	7,753	0	8,701	2,566	7	525	
25	221.53	47,152	-2,961	0	2,581	0	5,909	0	8,634	2,056	7	714	
26	222.06	48,544	1,392	0	2,453	0	6,220	0	6,492	2,889	9	1,419	
27	222.82	50,566	2,022	0	2,579	0	7,269	0	5,770	2,951	7	-101	
28	223.14	51,420	854	0	2,624	0	7,406	0	6,718	2,934	7	60	
29	221.78	47,809	-3,611	0	2,496	0	7,459	0	9,135	3,431	7	797	
Total				4,398	0	65,732	3,428	172,904	0	119,939	128,745	205	9,042
Mean cfs				---	0	2,267	118	5,962	0	4,136	4,439	7	312
Acre-feet				4,398	0	130,378	6,800	342,951	0	237,898	255,365	407	17,939

1/ Pump-in located at Mile 79.67R.

2/ Includes 65 AF delivered to DFG at O'Neill Forebay, 1 AF to Parks and Recreation, 1 AF to P&R Cattle, and 340 AF to San Luis Water District

3/ Daily values are averaged to include deliveries from February 1 through March 3.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

February 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 2,027,835 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/ 2/	Parks and Rec. Del.	
Jan 31	513.43	1,664,413						
1	514.00	1,671,182	6,769	3,845	0	208	0	-224
2	514.20	1,673,559	2,377	2,061	1,000	208	0	345
3	514.65	1,678,913	5,354	3,073	0	208	0	-166
4	515.06	1,683,795	4,882	2,748	0	208	0	-79
5	515.67	1,691,068	7,273	4,108	0	209	0	-232
6	516.01	1,695,127	4,059	2,230	0	164	0	-20
7	516.62	1,702,417	7,290	4,220	0	178	0	-367
8	517.30	1,710,556	8,139	4,425	0	181	0	-141
9	517.61	1,714,271	3,715	1,979	0	185	0	79
10	517.90	1,717,748	3,477	2,680	584	189	0	-154
11	518.47	1,724,591	6,843	3,820	0	171	0	-199
12	518.49	1,724,831	240	2,124	1,844	179	0	20
13	518.74	1,727,836	3,005	1,889	0	168	0	-206
14	519.03	1,731,323	3,487	2,024	0	169	0	-97
15	519.62	1,738,425	7,102	3,914	0	161	0	-172
16	519.97	1,742,643	4,218	2,236	0	160	0	51
17	520.37	1,747,468	4,825	2,267	0	173	0	339
18	520.70	1,751,452	3,984	2,118	0	157	0	48
19	521.20	1,757,494	6,042	3,348	0	128	0	-174
20	521.98	1,766,934	9,440	5,084	0	0	0	-325
21	522.58	1,774,207	7,273	3,853	0	191	0	5
22	523.69	1,787,690	13,483	7,247	0	190	0	-259
23	524.17	1,793,532	5,842	3,196	0	195	0	-56
24	525.45	1,809,141	15,609	8,701	0	199	0	-633
25	526.87	1,826,513	17,372	8,634	0	171	0	295
26	527.85	1,838,535	12,022	6,492	0	168	0	-263
27	528.75	1,849,600	11,065	5,770	0	163	0	-28
28	529.80	1,862,538	12,938	6,718	0	163	0	-32
29	531.09	1,878,476	15,938	9,135	0	164	1	-935
Total			214,063	119,939	3,428	5,008	1	-3,580
Mean cfs			---	4,136	118	173	0	-123
Acre-feet			214,063	237,898	6,800	9,938	1	-7,096

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 7,309 AF, San Benito: 2,629 AF.

2/ Daily values are averaged to include deliveries from February 1 through March 3.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

February 2004

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	11,263	7,731	0	0	7,626	1,675	413
2	9,112	5,591	1,984	1,984	4,088	1,832	413
3	8,569	5,938	0	0	6,096	3,592	413
4	7,428	4,786	0	0	5,451	2,090	413
5	9,725	7,024	0	0	8,149	5,044	415
6	9,775	7,054	0	0	4,423	1,957	326
7	9,537	6,870	0	0	8,371	5,094	354
8	10,048	7,484	0	0	8,777	2,914	360
9	9,690	7,036	0	0	3,925	3,191	367
10	10,681	8,023	1,158	1,158	5,315	2,748	374
11	12,099	9,442	0	0	7,576	5,877	340
12	11,467	8,788	3,658	3,658	4,212	4,212	355
13	11,974	9,286	0	0	3,746	3,746	333
14	11,593	8,877	0	0	4,015	3,775	336
15	11,048	8,419	0	0	7,764	4,922	320
16	10,407	7,748	0	0	4,436	3,615	317
17	10,308	7,659	0	0	4,496	4,496	344
18	8,985	6,313	0	0	4,202	4,202	311
19	8,383	5,660	0	0	6,641	6,641	253
20	8,903	6,181	0	0	10,084	10,084	0
21	8,437	5,717	0	0	7,643	6,375	378
22	6,955	4,285	0	0	14,374	8,868	376
23	5,602	2,892	0	0	6,339	4,309	387
24	5,089	2,344	0	0	17,258	15,116	394
25	4,078	1,369	0	0	17,125	14,707	339
26	5,730	4,497	0	0	12,876	9,185	333
27	5,854	4,597	0	0	11,445	7,359	324
28	5,819	4,536	0	0	13,325	9,100	324
29	6,806	5,550	0	0	18,120	7,373	326
Total	255,365	181,697	6,800	6,800	237,898	164,099	9,938

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

February 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Jan 31	324.68	19,139					
1	324.68	19,139	0	0	0	0	0
2	324.71	19,153	14	7	0	0	0
3	324.78	19,184	31	16	0	0	-1
4	324.85	19,216	32	16	0	0	0
5	324.89	19,234	18	9	0	0	0
6	324.93	19,252	18	9	0	0	0
7	324.94	19,257	5	3	0	0	-1
8	324.96	19,266	9	5	0	0	-1
9	324.98	19,275	9	5	0	0	-1
10	324.99	19,279	4	2	0	0	0
11	325.00	19,284	5	3	0	0	-1
12	325.01	19,288	4	2	0	0	0
13	325.02	19,293	5	3	0	0	-1
14	325.03	19,297	4	2	0	0	0
15	325.04	19,302	5	3	0	0	-1
16	325.05	19,306	4	2	0	0	0
17	325.07	19,315	9	5	0	0	-1
18	325.77	19,634	319	161	0	0	0
19	326.09	19,781	147	74	0	0	0
20	326.23	19,846	65	33	0	0	0
21	326.36	19,906	60	30	0	0	0
22	326.55	19,993	87	44	0	0	0
23	326.83	20,123	130	66	0	0	-1
24	326.96	20,183	60	30	0	0	0
25	327.99	20,665	482	243	0	0	0
26	329.02	21,153	488	380	0	133	-2
27	328.97	21,129	-24	188	0	200	0
28	328.50	20,906	-223	88	0	200	-1
29	327.87	20,608	-298	50	0	200	0
Total			1,469	1,479	0	733	-12
Mean cfs			---	51	0	25	---
Acre-feet			1,469	2,934	0	1,455	-12

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

February 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Jan 31	601.55	766					
1	Not Observed			2	0	0	
2	601.60	769	3	2	0	0	
3	601.65	772	3	0	0	0	
4	601.65	772	0	1	0	0	
5	601.68	773	1	1	0	0	
6	601.70	775	2	1	0	0	
7	601.72	776	1	2	0	0	
8	601.80	780	4	0	0	0	
9	601.80	780	0	0	0	0	
10	601.80	780	0	0	0	0	
11	601.80	780	0	0	0	0	
12	Not Observed			0	0	0	
13	Not Observed			0	0	0	
14	601.80	780	0	0	0	0	
15	601.80	780	0	0	0	0	
16	601.80	780	0	2	0	0	
17	601.85	783	3	5	0	0	
18	602.00	792	9	6	0	0.5	
19	602.20	803	11	1	0	0.5	
20	602.20	803	0	1	0	0.5	
21	602.20	803	0	1	0	0.5	
22	602.20	803	0	9	0	0.5	
23	602.45	818	15	1	0	0.5	
24	Not Observed			2	0	0.5	
25	602.50	821	3	1	0	0.5	
26	602.50	821	0	3	0	0.5	
27	602.60	826	5	1	0	0.5	
28	602.60	826	0	1	0	0.5	
29	602.60	826	0	0	0	0.5	
Total			60	40	0	6	---
Mean cfs			---	1	0	0	---
Acre-feet			60	79	0	12	-7

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct
 San Luis Field Division, Monthly Deliveries

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
2B	12	Check No. 12	66.71		342,951						
3A		San Luis Reservoir		Department of Parks and Recreation	1	7,309		1			
				San Felipe Division Santa Clara Water District	7,309						
				San Felipe Division San Benito Water District	2,629						
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	1	340		1			
				Cattle Program	1			1	29		
				Department of Fish & Game	65						
		70.91 Thru 85.08		San Luis Water District	340	340		36	29		
				(Floodwater Inflow)	0						
				Reach 3 Subtotal:	406	340	0	37	29		
		Dos Amigos Pumping Plant	86.73		255,365						
4	14		89.03			4,219					
			Thru 94.06	San Luis Water District	4,219						
			89.66				725				
			Thru 89.67	Pacheco Water District	725						
			89.68	Panoche Water District	29	29					
		89.70		City of Dos Palos	69	69					
				Check No. 14							
	15		98.15			828					
			Thru 104.20	San Luis Water District	828						
			96.15				4,353				
			Thru 102.64	Panoche Water District	4,353						
				(Floodwater Inflow)	0	4,353					
			102.64	Broadview Water District	0	5,734					
		105.22 Thru 108.64		Westlands Water District	5,734						
				Check No. 15	108.50						
				San Felipe Division Total:	9,938	9,938	0	0	0		
				Pacheco Water District Total:	725	725	0	0	0		
				Broadview Water District Total:	0	0	0	0	0		
				City of Dos Palos Total:	69	69	0	0	0		
				SLWD Reach 4 Subtotal:	5,387	5,387	0	0	0		
				Panoche Water District Total:	4,382	4,382	0	0	0		
				SLWD Total:	5,387	5,387	0	0	0		
				Westlands WD Reach 4 Subtotal:	5,734	5,734	0	0	0		

Table 19b. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					USBR	Transfer	DWR Recreation	USBR Recreation			
	No.	Structure	Mile									
5	16		110.52	(Reverse flow, Kings River)	0	11,402						
			Thru	Westlands Water District	11,402							
			122.05	Department of Fish and Game	0							
		Check No. 16	122.07									
	17		124.18	Westlands Water District	9,092	9,092						
			Thru 132.74									
		Check No. 17	132.95									
	18		133.81	Westlands Water District	6,443	6,443						
			Thru									
			142.61									
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	5,399	5,399						
			143.16	City of Coalinga	343		343					
		Check No. 18	143.23									
				Westlands WD Reach 5 Subtotal:	32,336	32,336	0	0	0			
6	19		145.26	Westlands Water District	7,726	7,726						
			Thru 151.19									
		Check No. 19	155.64									
				Westlands WD Reach 6 Subtotal:	7,726	7,726	0	0	0			
7	20		156.34	City of Huron	47	47						
			156.40	Westlands Water District	4,304		4,304					
			Thru 163.69									
		Check No. 20	164.69									
	21		164.79	City of Avenal	168	168						
			167.04	Westlands Water District	1,382		1,382					
		Check No. 21	171.67									
			172.40		201,086							
				Reach 7 Total:	5,901	5,901	0	0	0			
				Westlands WD Total:	51,482	51,482	0	0	0			
				City of Coalinga Total:	343	343	0	0	0			
				City of Huron Total:	47	47	0	0	0			
				City of Avenal Total:	168	168	0	0	0			
				Total San Luis Field Division Deliveries:	72,608	72,541	0	38	29			

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
February 2004

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	Pools 14 & 15 2/	Pool 15	Pools 15 thru 21 3/	Flow Past Check 21	
Jan 31	28,573								
1	28,336	-237	0	5,678	109	83	1,235	4,604	234
2	28,948	612	0	4,594	109	83	1,235	3,189	331
3	28,665	-283	0	4,320	109	83	1,235	3,491	455
4	27,154	-1,511	0	3,745	115	85	1,239	3,493	425
5	27,695	541	0	4,903	120	113	1,023	3,418	44
6	27,770	75	0	4,928	120	113	1,023	3,626	-8
7	27,657	-113	0	4,808	120	113	1,023	3,692	83
8	27,855	198	0	5,066	120	113	1,023	3,792	82
9	27,801	-54	0	4,885	120	113	1,023	3,750	94
10	27,545	-256	0	5,385	120	113	1,023	4,283	25
11	28,271	726	0	6,100	123	117	1,030	4,367	-97
12	28,397	126	0	5,781	106	92	1,194	4,336	11
13	28,723	326	0	6,037	106	92	1,194	4,404	-77
14	28,768	45	0	5,845	106	92	1,194	4,336	-94
15	28,691	-77	0	5,570	106	92	1,194	4,302	85
16	28,925	234	0	5,247	106	92	1,194	3,933	196
17	28,851	-74	0	5,197	106	92	1,194	4,101	259
18	28,941	90	0	4,530	106	92	1,199	3,908	820
19	28,427	-514	0	4,226	94	42	546	3,837	34
20	28,924	497	0	4,489	94	42	546	3,550	-6
21	29,132	208	0	4,254	94	42	546	3,497	30
22	28,982	-150	0	3,506	94	42	546	3,087	187
23	28,416	-566	0	2,824	94	42	546	2,604	177
24	28,747	331	0	2,566	94	42	546	1,815	98
25	28,321	-426	0	2,056	94	44	549	1,888	304
26	28,869	548	0	2,889	65	35	484	2,241	212
27	28,387	-482	0	2,951	65	35	484	2,714	104
28	28,309	-78	0	2,934	65	35	484	2,495	106
29	29,043	734	0	3,431	65	35	484	2,624	148
Total		470	0	128,745	2,945	2,209	26,236	101,377	4,259
Mean cfs		---	0	4,439	102	76	905	3,496	147
Acre-feet		470	0	255,365	5,841	4,382	52,040	201,086	8,454

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 724 AF AG & 1 AF M&I to Pacheco W.D., 65 AF to the City of Dos Palos, and 5,051 AF to San Luis Water District.

3/ Includes 47 AF to the City of Huron, 168 AF to the City of Avenal, 343 AF to the City of Coalinga, and 51,482 AF to WWD.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

February 2004

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	150	150	45	24	46	7,795	8,050	7,911	7,843
2	81	81	33	31	36	5,080	5,268	5,176	5,111
3	87	87	46	44	46	5,645	6,362	5,749	5,694
4	85	85	47	44	48	5,200	5,400	5,255	5,143
5	183	183	64	59	49	5,221	5,338	5,226	5,071
6	209	209	46	43	49	5,213	5,240	5,178	5,103
7	215	215	47	43	48	5,125	5,176	5,132	5,091
8	177	177	47	42	48	5,541	5,670	5,576	5,479
9	137	137	49	48	49	5,768	6,008	5,946	5,810
10	144	144	47	42	48	6,017	6,046	5,957	5,931
11	150	150	50	47	53	5,856	5,977	5,873	5,762
12	136	136	54	50	56	5,786	5,867	5,687	5,620
13	123	123	48	44	51	5,769	5,809	5,663	5,523
14	103	103	62	58	63	5,524	5,655	5,573	5,606
15	74	74	57	53	61	6,110	6,246	6,057	5,882
16	53	53	47	44	49	5,486	5,587	5,407	5,402
17	82	82	55	51	57	5,490	5,665	5,484	5,457
18	90	90	50	48	54	5,095	5,027	4,898	4,798
19	66	66	46	44	49	4,643	4,693	4,620	4,606
20	116	116	47	42	47	5,113	5,344	5,244	5,116
21	103	103	51	48	54	4,786	4,842	4,779	4,678
22	98	98	48	41	50	4,278	4,442	4,303	4,078
23	79	79	30	27	31	2,837	2,760	2,699	2,782
24	59	59	43	41	44	2,455	2,600	2,552	2,468
25	73	73	45	42	46	1,943	1,829	1,804	1,813
26	103	103	44	40	45	2,801	2,776	2,576	2,618
27	84	84	43	40	45	2,528	2,648	2,562	2,561
28	115	115	38	36	41	2,292	2,416	2,245	2,260
29	77	77	44	41	46	2,783	2,797	2,760	2,712
Total	3,252	3,252	1,373	1,257	1,409	138,180	141,538	137,892	136,018

Table 22a. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A Amount	USBR	Art. 12E Table A Carryover	Wet Weather Table A C/O	Extended Table A Carryover		
	No.	Structure										
7	21	Check No. 21	172.40		201,086							
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	468	74	547	1,650	468	114 86 206 569 1 203		
				County of Kings TL - A	0							
				TLBWSD TL-A	1,650							
			175.18	DRWD - 1	114							
			177.54	DRWD - 1B	86							
			180.64	TLBWSD - C	0							
			180.65	DRWD - 1A	206							
			182.99	DRWD - 2	643							
			183.00	Tulare Lake Basin WSD TL - B	797							
			184.00	DRWD - Paramount	1							
31A			184.63	Coastal Branch	3,252							
8D			184.78	Dudley Ridge Water Dist. DRWD - 3	203							
				Dudley Ridge Reach 8D Total:	1,253		74	0	0	1,179		
				Tulare Lake Basin WSD Total:	2,447		547	0	1,900	0		
		Check No. 22	184.82									
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	2,164	108		1,650	468	2,056 170		
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	170							
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	0							
			196.40	Kern County Water Agency Berrenda Mesa - 2	0							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	0							
				K.C.W.A. Reach 9 Subtotal:	2,334							
			Check No. 23	197.05								
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	42		870	1,650	468	42 449		
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	449							
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	0							
			Check No. 24	207.94								
10A	25		209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	990		870	1,650	468	990 1,815 1/ 22,430 2/ 8,574		
			209.78	Kern National Wildlife Refuge USBR BV-1B	870							
				Kern County Water Agency Buena Vista WSD 1B	1,815							
			209.80	KCWA Semitropic WSD	22,430							
				KCWA Semitropic WSD Penstocks	8,574							
				USBR Total:	870							
				K.C.W.A. Reach 10A Subtotal:	34,300							

1/ Carryover water from Castaic Lake WA to storage in Semitropic WSD.

2/ Carryover water from Alameda County WD to storage in Semitropic WSD.

Table 22b. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Other	Art. 12E Table A Carryover	Wet Weather Table A C/O	Extended Table A Carryover		
	No.	Structure	Mile									
11B	25	210.75	Kern County Water Agency Belridge - 2	0	2,802	0	0	0	0	2,802		
		214.11	Kern County Water Agency Belridge - 3	0								
		216.62	Kern County Water Agency Belridge - 4	0								
		217.13	Kern County Water Agency Belridge - 5	2,802								
			Kern County Water Agency Belridge - 5D	92								
		Check No. 25	217.79									
			K.C.W.A. Reach 11B Subtotal:	2,894		0	0	0	0	2,894		
12D	26	219.58	Kern County Water Agency Belridge - 6	0	341	0	0	0	0	341		
			Kern County Water Agency West Kern - 3	341								
		Check No. 26	224.92									
12E	27	230.37	Kern County Water Agency Buena Vista - 6	0	8,678	0	0	0	0	8,678		
		Check No. 27	231.73									
	28	235.75	Kern County Water Agency Buena Vista - 2	0								
		238.04	Kern County WA CVC	8,678								
			DRWD CVC	0								
			Tulare Co.	0								
			Lower Tule River	0								
			Fresno Co.	0								
			Pixley ID	0								
			Hacienda									
			DWR Wells	0								
		Check No. 28	238.11									
13B	29	238.19	1/ Arvin Edison Total:	0	8,678	0	0	0	0	0		
			Reach 12E Subtotal:	8,678		0	0	0	0	8,678		
		241.02	Kern Water Bank Inflow	0		1,914						
			Kern Water Bank Outflow	1,914								
			Kern River Intertie (inflow)	0								
			KCWA Buena Vista WSD - 7	0								
			KCWA Buena Vista WSD - 5	0								
	30	242.85	Kern County Water Agency Buena Vista - 3	482	138,180	0	0	0	0	482		
			Buena Vista WSD	0								
			Kern County Water Agency Buena Vista - 4	976								
14A	31	Buena Vista Pumping Plant	250.99									
			K.C.W.A. Reach 13B Subtotal:	3,372		0	0	0	0	3,372		
			254.47	Kern County Water Agency West Kern - 2	0	5	0	0	0	5		
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	5							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22c. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A Amount	Other	Art. 12E Table A Carryover	Wet Weather Table A C/O	Extended Table A Carryover			
	No.	Structure	Mile										
14A	31	Check No. 31	256.14			0	0	0	0	270			
	32		258.61		Kern County Water Agency Wheeler Ridge-Maricopa - 3								
			260.44		Kern County Water Agency Wheeler Ridge-Maricopa - 4								
		Check No. 32	261.72										
	KCWA Reach 14A Subtotal:				270								
14B	33		264.42		Kern County Water Agency Wheeler Ridge-Maricopa - 5	290				290			
			266.91		Kern County Water Agency Wheeler Ridge-Maricopa - 6								
		Check No. 33	267.36										
	34		270.24		Kern County Water Agency Wheeler Ridge-Maricopa - 7	336				336			
			271.27										
	Reach 14B Total:				646								
14C	35		272.39		Kern County Water Agency Wheeler Ridge-Maricopa - 8	730				730			
			276.09		Kern County Water Agency Wheeler Ridge-Maricopa - 9					635			
			Reach 14C Total:										
			1,365				0	0	0	1,365			
15A	36		278.13		Teerink Pumping Plant		141,538						
			279.02		Kern County Water Agency Wheeler Ridge-Maricopa - 9A	22							
			280.06		Kern County Water Agency Wheeler Ridge-Maricopa - 10	549							
			Reach 15-A Total:										
16A	37		280.36		Chrisman Pumping Plant		137,892						
			282.06		Kern County Water Agency Wheeler Ridge-Maricopa - 11								
			283.95		Check No. 37								
			285.01		Kern County Water Agency Wheeler Ridge-Maricopa - 12	8				8			
	38		286.39		Kern County Water Agency Wheeler Ridge-Maricopa - 13A								
			287.06		Kern County Water Agency Wheeler Ridge-Maricopa - 13								
			287.09		Check No. 38								
	39		287.62		Kern County Water Agency Wheeler Ridge-Maricopa - 13B	130				130			
			290.21		Check No. 39								
17E	40		291.26		Kern County Water Agency Wheeler Ridge-Maricopa - 14	25				25			
			293.07		Kern County Water Agency Wheeler Ridge-Maricopa - 15								
			Kern County Water Agency Tehachapi Cummings CWD										
			K.C.W.A. Reach 16A Subtotal:				193	0	0	193			
	Edmonston Pumping Plant	293.45					136,018						

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Recovery of Pump In	MWD Ent.	Exchange	Extended Table A Carryover		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		3,252	434	197	1,327				
		Las Perillas Pumping Plant	1.16		3,252							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		3,252							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	434							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	197							
			14.83	Kern County Water Agency Berrenda Mesa - 1	1,327							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		1,373							
				K.C.W.A. Reach 31A Subtotal:	1,524	0	0	0	0	1,524		
				K.C.W.A. Total:	56,488	108	0	0	0	56,380		
33A	C-7	Bluestone Pumping Plant	19.05		1,257	1,162	296					
	C-8	Polonio Pass Pumping Plant	26.54		1,409							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,162							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	296							
		Energy Dissipater	78.12									
	Lopez T.O.		85.86	SLOCFC & WCD	0							
35	C-12			CCWA Total:	1,458	1,458	0	0	0	0		
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
38				SBCFC & WCD Total:	0	0	0	0	0	0		
		Tank Site 5	115.42									

Table 24. Southern Field Division Plant Data

(in acre-feet)

February 2004

Date	West Branch					East Branch											
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Cherry Valley	Green Spot	Crafton Hills	
		Generation	Bypass 1/	Generation 2/	Pumpback 2/	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume					
28	1	3,838	3,034	0	381	0	3,711	0	254	3,796	3,591	0	0	2,988	0	6	0
	2	2,130	2,494	0	3,504	0	2,794	0	174	2,792	2,849	0	0	3,078	0	33	27
	3	2,334	2,404	0	3,501	0	3,103	0	186	3,239	3,367	0	0	2,909	0	31	25
	4	2,297	2,419	0	3,347	0	2,608	0	231	2,591	2,430	0	0	2,550	5	6	0
	5	2,272	2,315	0	3,556	0	2,637	0	226	2,626	2,368	0	0	2,419	6	31	25
	6	2,333	2,151	0	3,046	0	2,705	0	83	2,898	3,009	0	0	2,801	0	31	25
	7	1,917	2,199	0	1,338	0	2,947	0	250	2,842	2,482	0	0	2,764	0	5	0
	8	2,559	1,857	0	503	1,204	2,965	0	0	3,032	2,876	0	0	2,888	0	6	0
	9	2,719	2,724	0	4,628	1,414	2,830	0	183	2,900	3,140	0	0	2,988	7	33	27
	10	2,827	2,763	0	4,342	0	2,893	0	196	2,887	2,941	0	0	2,834	0	31	26
	11	2,665	2,614	0	3,763	0	2,882	0	214	2,757	2,870	0	0	2,787	6	6	0
	12	2,719	2,770	0	4,018	0	2,702	0	214	2,928	2,493	0	0	2,757	7	32	25
	13	2,825	2,675	0	500	0	2,700	0	23	2,674	2,799	0	0	2,992	0	33	25
	14	2,451	2,826	0	410	0	3,022	0	62	2,785	2,783	0	0	2,739	0	6	0
	15	2,719	3,277	0	459	0	3,177	0	33	2,915	2,683	0	0	2,724	0	0	0
	16	2,559	2,348	0	3,272	0	2,656	0	155	2,661	2,988	0	0	2,648	0	0	0
	17	2,475	2,344	0	3,521	0	2,856	0	145	2,848	2,737	0	0	2,602	0	33	25
	18	2,545	2,256	0	3,818	1,251	2,251	0	0	2,192	1,944	0	0	2,331	8	30	26
	19	2,483	2,373	72	3,955	364	2,061	0	67	2,360	2,318	0	0	2,282	10	30	27
	20	2,342	2,395	0	3,755	0	2,475	0	278	2,244	2,185	0	0	2,242	0	31	27
	21	2,726	2,394	0	3,151	0	1,994	0	41	1,846	1,943	0	0	2,078	0	0	0
	22	2,184	2,397	0	463	1,201	2,010	0	0	2,097	1,888	0	0	2,042	0	7	0
	23	814	585	0	1,775	2,329	2,060	0	0	2,033	2,081	0	0	2,198	10	28	24
	24	707	570	0	1,820	710	1,769	0	0	1,807	1,786	0	0	2,060	0	27	23
	25	426	444	0	1,966	1,281	1,427	0	0	1,167	1,254	0	0	2,052	10	4	0
	26	480	506	0	2,365	574	2,090	0	0	2,289	2,068	0	0	2,007	6	16	12
	27	970	1,205	0	1,609	529	1,635	0	0	1,445	1,476	0	0	2,083	0	13	9
	28	428	425	0	526	0	1,808	0	0	1,586	1,598	0	0	2,114	0	0	0
	29	486	420	0	821	0	2,251	0	0	2,231	2,309	0	0	2,069	0	4	0
	Total	60,230	59,184	72	70,113	10,857	73,019	0	3,015	72,468	71,256	0	0	73,026	75	513	378

1/ Warne Bypass on Feb 19th run through the Gorman Creek Improvement channel

2/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

February 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	
				Project		Natural	Project		Natural	United Water Agency		
				Castaic Powerplant Pumpback 1/	Warne Powerplant	Stream Flow	Castaic Powerplant Generation 1/	Recreation Deliveries	To Piru Creek			
Jan 31	2574.40	165,295										
1	2576.37	167,805	2,510	0	3,034	19	381	0	20	0	-142	
2	2575.60	166,821	-984	0	2,494	35	3,504	0	20	0	11	
3	2574.77	165,765	-1,056	0	2,404	30	3,501	0	40	0	51	
4	2573.93	164,699	-1,066	0	2,419	29	3,347	0	30	0	-137	
5	2573.20	163,778	-921	0	2,315	27	3,556	0	30	0	323	
6	2572.44	162,822	-956	0	2,151	24	3,046	0	30	0	-55	
7	2573.11	163,665	843	0	2,199	24	1,338	0	30	0	-12	
8	2575.09	166,171	2,506	1,204	1,857	23	503	0	30	0	-45	
9	2574.71	165,688	-483	1,414	2,724	23	4,628	0	30	0	14	
10	2573.38	164,005	-1,683	0	2,763	22	4,342	0	22	0	-104	
11	2572.39	162,760	-1,245	0	2,614	21	3,763	0	22	0	-95	
12	2571.35	161,458	-1,302	0	2,770	20	4,018	0	22	0	-52	
13	2573.02	163,551	2,093	0	2,675	21	500	0	22	0	-81	
14	2574.88	165,904	2,353	0	2,826	21	410	0	22	0	-62	
15	2577.02	168,639	2,735	0	3,277	21	459	0	22	0	-82	
16	2576.29	167,703	-936	0	2,348	21	3,272	0	22	0	-11	
17	2575.33	166,477	-1,226	0	2,344	20	3,521	0	22	0	-47	
18	2575.10	166,184	-293	1,251	2,256	21	3,818	0	22	0	19	
19	2574.14	164,966	-1,218	364	2,445	22	3,955	0	22	0	-72	
20	2573.08	163,627	-1,339	0	2,395	24	3,755	0	22	0	19	
21	2572.50	162,898	-729	0	2,394	23	3,151	0	298	0	303	
22	2574.96	166,006	3,108	1,201	2,397	159	463	0	40	0	-146	
23	2575.78	167,051	1,045	2,329	585	85	1,775	0	149	0	-30	
24	2575.34	166,490	-561	710	570	34	1,820	0	149	0	94	
25	2575.50	166,694	204	1,281	444	154	1,966	0	79	0	370	
26	2575.11	166,197	-497	574	506	1,534	2,365	0	1,713	0	967	
27	2575.33	166,477	280	529	1,205	268	1,609	0	248	0	135	
28	2575.10	166,184	-293	0	425	142	526	0	149	0	-185	
29	2574.71	165,688	-496	0	420	99	821	0	99	0	-95	
Total				393	10,857	59,256	2,966	70,113	0	3,426	0	853

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

February 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Jan 31	1513.73	20,648								
1	1506.73	17,947	-2,701	381	0	0	0	3,081	-1	
2	1508.13	18,472	525	3,504	0	0	0	2,980	1	
3	1508.31	18,540	68	3,501	0	0	0	3,433	0	
4	1508.25	18,517	-23	3,347	0	0	0	3,370	0	
5	1516.67	21,844	3,327	3,556	2	0	2	227	-2	
6	1516.87	21,926	82	3,046	2	0	2	2,961	-3	
7	1512.83	20,290	-1,636	1,338	2	0	2	2,972	-2	
8	1511.18	19,641	-649	503	2	1,204	2	0	52	
9	1511.52	19,774	133	4,628	2	1,414	2	3,078	-3	
10	1514.34	20,893	1,119	4,342	2	0	2	3,221	-2	
11	1515.92	21,535	642	3,763	2	0	2	3,119	-2	
12	1517.94	22,371	836	4,018	0	0	0	3,183	1	
13	1511.26	19,672	-2,699	500	0	0	0	3,197	-2	
14	1512.31	20,084	412	410	0	0	0	0	2	
15	1513.42	20,524	440	459	0	0	0	0	-19	
16	1514.06	20,781	257	3,272	0	0	0	3,018	3	
17	1514.94	21,136	355	3,521	0	0	0	3,163	-3	
18	1513.19	20,433	-703	3,818	0	1,251	0	3,271	1	
19	1514.37	20,905	472	3,955	0	364	0	3,119	0	
20	1516.42	21,741	836	3,755	0	0	0	2,924	5	
21	1516.79	21,893	152	3,151	0	0	0	3,008	9	
22	1515.15	21,221	-672	463	5	1,201	5	0	66	
23	1513.73	20,648	-573	1,775	6	2,329	6	0	-19	
24	1511.40	19,727	-921	1,820	3	710	3	2,016	-15	
25	1513.20	20,437	710	1,966	21	1,281	21	0	25	
26	1512.82	20,286	-151	2,365	274	574	274	1,924	-18	
27	1512.98	20,349	63	1,609	63	529	63	1,004	-13	
28	1514.33	20,889	540	526	36	0	36	0	14	
29	1516.33	21,704	815	821	24	0	24	0	-6	
Total				1,056	70,113	446	10,857	446	58,269	69

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

February 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay /1		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Jan 31	1505.28	302,400								
1	1505.64	303,174	774	0	3,081	1	2,278	0	-30	
2	1506.06	304,078	904	0	2,980	1	2,194	0	117	
3	1506.66	305,372	1,294	0	3,433	4	2,048	0	-95	
4	1507.39	306,935	1,563	0	3,370	2	1,835	20	46	
5	1506.46	304,940	-1,995	2	227	2	1,835	20	-371	
6	1506.95	305,999	1,059	2	2,961	1	1,764	20	-121	
7	1507.51	307,211	1,212	2	2,972	1	1,700	20	-43	
8	1506.70	305,459	-1,752	2	0	1	1,696	0	-59	
9	1507.27	306,691	1,232	2	3,078	1	1,784	0	-65	
10	1507.83	307,905	1,214	2	3,221	1	1,900	0	-110	
11	1508.28	308,883	978	2	3,119	1	1,998	135	-11	
12	1508.82	310,058	1,175	0	3,183	1	1,878	131	0	
13	1509.42	311,368	1,310	0	3,197	1	1,794	0	-94	
14	1508.58	309,536	-1,832	0	0	1	1,954	0	121	
15	1507.74	307,710	-1,826	0	0	1	1,722	0	-105	
16	1508.29	308,905	1,195	0	3,018	1	1,835	0	11	
17	1508.89	310,211	1,306	0	3,163	1	1,826	0	-32	
18	1509.59	311,739	1,528	0	3,271	1	1,759	0	15	
19	1510.22	313,118	1,379	0	3,119	1	1,739	0	-2	
20	1510.77	314,325	1,207	0	2,924	1	1,636	0	-82	
21	1511.34	315,579	1,254	0	3,008	1	1,538	0	-217	
22	1510.80	314,391	-1,188	5	0	7	1,458	0	258	
23	1510.20	313,074	-1,317	6	0	12	1,353	0	18	
24	1510.53	313,798	724	3	2,016	7	1,207	20	-75	
25	1510.17	313,009	-789	21	0	33	1,332	20	509	
26	1510.89	314,589	1,580	274	1,924	595	1,324	14	125	
27	1510.71	314,193	-396	63	1,004	72	1,318	228	11	
28	1510.14	312,943	-1,250	36	0	34	1,267	99	46	
29	1509.54	311,630	-1,313	24	0	22	1,324	98	63	
Total				9,230	446	58,269	808	49,296	825	-172

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Local	Art. 12E Table A Carryover	Extended Table A Carryover		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		60,230							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07		59,184							
29H	W3	Pyramid Lake		Calif. State Park								
			14.10	Pyramid Recreation	0							
		Pyramid Dam	17.10	United Water Conservation Dist.	0							
29J	W4	Castaic Power Plant	25.82	(10,857 AF pumpback)	70,113							
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		Calif. State Park								
		Castaic Dam	31.47	Castaic Lake Recreation	28							
		Castaic Lake Outlet	31.55	MWD - 78"	10,837							
				MWD - 132"	0							
				Castaic Lake WA - T1	1,663							
				Castaic Lake WA	14							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	154							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	825							
				Reach 30 Subtotal:	49,296		28	0	0	48,624		
	W6	Castaic Lagoon		Recreation to Lagoon	0							
		Castaic Lagoon Outlet	31.87									

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

February 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River		
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel				
Jan 31	3350.30	70,459											
1	3351.10	71,216	757	3,591	0	3	3	1	2,988	0	0	155	
2	3350.90	71,026	-190	2,849	0	3	4	0	3,078	0	1	41	
3	3351.45	71,549	523	3,367	0	8	5	0	2,909	0	0	62	
4	3351.40	71,501	-48	2,430	0	5	3	0	2,550	0	1	71	
5	3351.40	71,501	0	2,368	0	4	4	0	2,419	0	1	52	
6	3351.90	71,977	476	3,009	0	4	4	0	2,801	0	1	269	
7	3351.60	71,691	-286	2,482	0	4	4	0	2,764	0	0	-4	
8	3351.70	71,787	96	2,876	0	3	4	0	2,888	0	1	110	
9	3352.00	72,073	286	3,140	0	3	4	0	2,988	0	0	135	
10	3352.00	72,073	0	2,941	0	3	4	0	2,834	0	0	-106	
11	3352.10	72,169	96	2,870	0	2	4	0	2,787	0	1	16	
12	3351.90	71,977	-192	2,493	0	2	3	0	2,757	0	0	73	
13	3351.70	71,787	-190	2,799	0	2	4	0	2,992	0	0	5	
14	3351.70	71,787	0	2,783	0	2	5	0	2,739	0	1	-40	
15	3351.70	71,787	0	2,683	0	2	4	1	2,724	0	0	44	
16	3352.10	72,169	382	2,988	0	2	5	0	2,648	0	0	45	
17	3352.30	72,360	191	2,737	0	3	5	0	2,602	0	1	59	
18	3351.90	71,977	-383	1,944	0	4	4	0	2,331	0	0	4	
19	3352.00	72,073	96	2,318	0	6	4	0	2,282	0	0	58	
20	3352.00	72,073	0	2,185	0	9	4	0	2,242	0	1	53	
21	3352.10	72,169	96	1,943	0	19	8	0	2,078	0	1	221	
22	3352.40	72,456	287	1,888	0	323	5	0	2,042	0	1	124	
23	3352.20	72,257	-199	2,081	0	234	4	0	2,198	0	122	-190	
24	3351.90	71,977	-280	1,786	0	97	4	0	2,060	0	115	16	
25	3351.20	71,311	-666	1,254	0	45	3	0	2,052	0	0	90	
26	3352.00	72,073	762	2,068	0	1,035	3	0	2,007	0	236	-95	
27	3351.15	71,264	-809	1,476	0	219	3	0	2,083	0	387	-31	
28	3350.40	70,554	-710	1,598	0	108	3	0	2,114	0	287	-12	
29	3350.60	70,742	188	2,309	0	70	2	0	2,069	0	95	-25	
Total				283	71,256	0	2,224	116	2	73,026	0	1,253	1,200
												187	

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

February 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Jan 31	1584.89	119,788				
1	1584.92	119,856	68		9	
2	1584.93	119,878	22		10	
3	1584.97	119,968	90		9	
4	1585.03	120,103	135		11	
5	1585.17	120,417	314		55	
6	1585.27	120,642	225		9	
7	1585.25	120,597	-45		134	
8	1585.29	120,687	90		9	
9	1585.40	120,934	247		10	
10	1585.36	120,844	-90		9	
11	1585.42	120,979	135		9	
12	1585.41	120,957	-22		9	
13	1585.38	120,889	-68		10	
14	1585.39	120,912	23		9	
15	1585.38	120,889	-23		9	
16	1585.39	120,912	23		9	
17	1585.40	120,934	22		10	
18	1585.49	121,137	203		9	
19	1585.58	121,339	202		9	
20	1585.61	121,407	68		10	
21	1585.62	121,430	23		10	
22	1585.70	121,610	180		9	
23	1585.82	121,881	271		11	
24	1585.85	121,948	67		9	
25	1585.93	122,129	181		9	
26	1585.97	122,220	91		11	
27	1585.97	122,220	0		9	
28	1585.94	122,152	-68		15	
29	1585.98	122,242	90		10	
Total		2,454	3,342	451	-437	

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Transfer	Art. 12E Table A Carryover	Extended Table A Carryover		
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		136,018							
	41		298.65	Kern County Water Agency Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 3,015 AF flow down Cottonwood Chute)	73,019				459			
			308.05	Antelope Valley-East Kern WA	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West	0							
	Check No. 44		314.81									
	45		314.93	AVEK 235th Street West	0							
			315.57	AVEK 225th Street West	0							
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont	459		24	0	459	0		
				Mojave Water Agency Fairmont	24							
		Check No. 46	323.84									
				Reach 19 Total:	483							
20A	47	Check No. 47	326.77						18			
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	18							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0		1,716	12	1,716	12		
				Antelope Valley-East Kern WA	1,716							
			339.68	Antelope Valley-East Kern WA	12							
20B	Check No. 50		341.51						19			
	51	Check No. 51	342.07									
	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use		456	74	456	74		
			343.50	Antelope Valley-East Kern WA Temporary 10 & 12	19							
		Check No. 52	343.74									
	53		346.98	PWD Palmdale	456							
				Antelope Valley-East Kern WA Acton Treatment Plant	74							
21	Check No. 53		348.17									
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
	57		354.97	Littlerock Creek I.D.	0							
		Check No. 57	356.93									
22A	58		357.60	Antelope Valley-East Kern WA	0		17	3	188			
			357.72	Antelope Valley-East Kern WA 96th Street East	0							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	0							

Table 31b. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

February 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending					Table A Amount	Recreation	Transfer 1/	Local	Extended Table A Carryover				
	No.	Structure	Mile											
22B	58	Pearblossom Pumping Plant	360.61		72,468	637	480	2	187	116				
	59	Check No. 59	366.09											
	60		366.50		Antelope Valley-East Kern WA									
		Check No. 60	373.94											
	61	Check No. 61	379.00											
	62	Check No. 62	384.26											
	63	Check No. 63	389.20		Mojave Water Agency Mojave River		637							
			394.60		Mojave Water Agency Temporary									
	64	Check No. 64	395.10											
	65	Check No. 65	400.32											
	66		401.10		Mojave Water Agency Morongo 24" and 42"		480							
					Mojave Water Agency Hesperia									
23	Check No. 66	403.41												
	Mojave Siphon	405.48	Las Flores Ranch		187	187	116	2	116	8,444				
24														
Mojave Siphon Powerplant	405.65			71,256	2	20,000	81	81	11,156					
25	Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency		116	12	56	16	16	4,297				
26A	San Bernardino Tunnel Intake	407.70	Calif. State Park Silverwood Agency (Rec.)		2	2	20,000	81	81	25,883				
28G	Devil Canyon Afterbay Control Structures	412.73	73,026		73,026	20,000	81	81	81	274				
28H	Santa Ana Valley Pipeline	425.46	MWD-SC Rialto		31,156	12	56	16	16	54				
28I	433.06	Desert Water Agency (MWD Wheeling Exchange)			0	2	2	2	2	107				
28J	440.05	San Gabriel Valley Water District			12	2	2	2	2	11,156				
28K	442.00	Coachella Valley WD (MWD Wheeling Exchange)			0	2	2	2	2	8,444				
28L	443.44	San Bernardino Valley MWD 24" and 72"			56	2	2	2	2	25,883				
28M	444.00	San Bernardino Valley MWD 48"			0	2	2	2	2	274				
28N	444.44	MWD	(SBVMWD Exchange)		8,444	2	2	2	2	2				
28O	444.88	San Gorgonio Pass Water Agency			81	2	2	2	2	2				
28P	445.32	MWD-SC 48"			54	2	2	2	2	54				
28Q	445.76	MWD-SC 78"			107	2	2	2	2	107				
28R	446.20	Calif. State Park Lake Perris Recreation			16	2	2	2	2	16				
28S	446.64	MWD Total:			119,469	2	2	2	2	0				
28T	447.08	630	630	630	0	20,000	20,000	20,000	20,000	0				
28U	447.52	98,839	98,839	98,839	98,839	98,839	98,839	98,839	98,839	98,839				

1/ San Bernardino Valley WD water to MWD.

Table 32. Water Quality At Selected SWP Locations

February 2004

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	39	48	75	131	82	81	83	82	79
Antimony	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.6	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	<0.01	0.08	0.35	0.11	0.11	0.12	0.11	0.18
Calcium	mg/l	8	6	18	48	21	21	22	21	21
Carbon - Dissolved Organic	mg/l as C	NR	12	5	4	5	5	5	5	4
Carbon - Total Organic	mg/l as C	NR	14	5	5	5	5	5	5	5
Chloride	mg/l	<1	6	30	158	45	45	47	46	68
Chromium	mg/l	<0.001	<0.001	0.001	0.004	0.001	0.001	0.001	0.002	0.002
Copper	mg/l	<0.001	0.003	0.002	0.003	0.002	0.002	0.002	0.002	0.002
Fluoride	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hardness	mg/l as CaCO ₃	36	36	86	220	102	102	104	98	102
Iron	mg/l	<0.005	0.123	0.038	<0.005	0.041	0.029	0.032	0.034	0.014
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	5	10	26	12	12	12	12	12
Manganese	mg/l	<0.005	0.029	0.012	<0.005	0.008	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	0.01	0.21	0.77	NR	NR	0.95	NR	0.99	1.06
Phosphorus-Ortho	mg/l as P	<0.01	0.17	0.05	NR	NR	0.06	NR	0.06	0.07
Phosphorus-Total	mg/l	0.02	0.63	0.12	NR	NR	0.10	NR	0.11	0.11
Selenium	mg/l	NR	<0.001	<0.001	NR	NR	NR	<0.001	NR	NR
Sodium	mg/l	3	15	24	122	34	35	38	36	47
Specific Conductance	µS/cm	82	136	308	1080	408	396	416	405	471
Sulfate	mg/l	2	6	26	166	43	38	44	42	42
Total Dissolved Solids	mg/l	50	94	179	625	233	226	238	233	263
Turbidity	NTU	4	130	16	11	8	6	6	9	4
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

February 2004

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millSiemens/cm									Cl in mg/l	
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	(Antioch) Daily Mean		Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
	Hi	Half													md
1	2.88	0.93	17,026	17,026	20,560	0.30	0.84	0.22	0.22	0.26	0.24	0.30	1.90	0.47	36
2	3.70	1.46	15,594	16,310	19,606	0.34	1.83	0.22	0.22	0.26	0.24	0.34	1.91	0.50	33
3	3.55	1.50	20,951	17,857	21,215	0.36	1.46	0.22	0.22	0.26	0.24	0.31	1.90	0.50	34
4	3.18	1.14	22,928	19,125	21,985	0.34	0.94	0.21	0.22	0.25	0.24	0.35	1.90	0.57	35
5	3.09	1.02	28,667	21,033	28,703	0.33	0.67	0.21	0.22	0.25	0.24	0.53	0.00	0.55	35
6	3.00	0.93	35,331	23,416	33,868	0.32	0.44	0.21	0.22	0.25	0.25	0.29	1.99	0.57	36
7	2.76	0.80	35,767	25,181	33,684	0.28	0.31	0.19	0.22	0.24	0.25	0.32	1.96	0.55	36
8	2.61	0.75	27,475	25,467	29,472	0.26	0.26	0.16	0.22	0.24	0.25	0.36	1.93	0.60	38
9	2.31	0.68	23,332	25,230	26,686	0.45	0.23	0.16	0.21	0.24	0.25	0.38	1.95	0.58	35
10	2.09	0.56	21,354	24,843	24,899	0.26	0.21	0.17	0.21	0.23	0.25	0.39	1.90	0.60	37
11	2.40	0.60	19,761	24,381	23,321	0.25	0.21	0.18	0.20	0.23	0.25	0.40	1.82	0.62	37
12	2.60	0.61	17,244	23,786	21,665	0.25	0.22	0.19	0.20	0.23	0.25	0.38	1.73	0.56	38
13	2.88	0.75	15,649	23,160	20,434	0.24	0.35	0.20	0.20	0.23	0.24	0.35	1.73	0.56	37
14	3.09	0.93	14,614	22,550	19,366	0.24	0.52	0.20	0.20	0.23	0.24	0.37	1.82	0.54	37
15	3.29	1.04	13,348	21,936	18,403	0.25	0.85	0.21	0.20	0.23	0.24	0.37	1.79	0.52	36
16	3.77	1.47	12,618	21,354	17,581	0.32	1.64	0.21	0.19	0.23	0.24	0.35	1.75	0.59	36
17	4.02	1.83	20,253	21,289	22,006	0.41	2.26	0.22	0.19	0.24	0.24	0.32	1.70	0.53	34
18	3.93	1.73	35,110	22,057	35,483	0.40	1.52	0.23	0.20	0.24	0.24	0.34	1.65	0.59	33
19	3.56	1.36	51,692	23,617	46,536	0.32	0.57	0.23	0.20	0.24	0.24	0.38	1.68	0.61	35
20	3.59	1.48	68,549	25,863	60,932	0.26	0.30	0.20	0.20	0.23	0.23	0.39	1.66	0.60	35
21	3.58	1.66	127,229	30,690	118,035	0.26	0.21	0.16	0.19	0.23	0.23	0.40	1.62	0.59	35
22	3.75	1.87	149,796	36,104	143,405	0.25	0.17	0.15	0.19	0.22	0.23	0.37	1.61	0.54	35
23	3.64	2.05	146,629	40,909	141,941	0.23	0.15	0.14	0.19	0.21	0.23	0.38	1.59	0.49	34
24	3.62	1.83	132,671	44,733	130,413	0.22	0.14	0.14	0.19	0.20	0.23	0.39	1.61	0.52	35
25	3.74	2.21	123,001	47,864	120,502	0.19	0.00	0.13	0.19	0.19	0.23	0.37	1.66	0.47	35
26	4.24	2.35	131,373	51,075	126,491	0.20	0.00	0.14	0.18	0.18	0.22	0.43	1.75	0.50	35
27	3.47	1.80	149,096	54,706	138,736	0.19	0.00	0.13	0.18	0.17	0.22	0.55	1.76	0.62	35
28	3.11	1.68	155,631	58,310	145,165	0.17	0.00	0.12	0.17	0.17	0.21	0.55	1.69	0.62	36
29	3.04	1.67	159,637	61,804	150,686	0.18	0.00	0.13	0.17	0.16	0.21	0.55	1.70	0.52	37

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

February 2004

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 16, 2003	None Detected	
California Aqueduct At Banks Pumping Plant	September 16, 2003	None Detected	
O'Neill Forebay Outlet Check 13	September 16, 2003	None Detected	
Delta Mendota Canal At McCabe Road	September 16, 2003	None Detected	
California Aqueduct Near Kettleman City (Check 21)	September 16, 2003	None Detected	
California Aqueduct At Near Highway 119 (Check 29)	September 16, 2003	None Detected	
California Aqueduct At Tehachapi Afterbay (Check 41)	September 16, 2003	None Detected	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

February 2004

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	1,727,136	332,352	8,736	20,293	2,647,104	2,647,104	187,925	697
2	4,172,544	288	9,625	18,585	2,637,312	2,637,312	185,705	706
3	2,157,120	1,429,344	9,457	19,579	2,277,888	2,277,888	177,030	701
4	2,300,832	137,952	10,269	20,272	2,010,240	2,010,240	190,330	732
5	1,841,184	960,192	9,562	20,279	3,307,392	3,307,392	174,210	700
6	1,655,712	9,216	10,262	20,279	2,836,800	2,836,800	165,965	707
7	45,504	14,112	8,876	20,286	2,869,440	2,869,440	174,720	704
8	1,333,728	11,520	9,576	20,272	3,551,808	3,551,808	169,980	697
9	2,290,176	6,624	9,268	20,286	3,644,160	3,644,160	175,870	704
10	2,568,384	6,048	11,452	23,996	3,534,720	3,534,720	174,705	720
11	1,877,472	7,200	10,521	20,307	3,601,152	3,601,152	175,685	698
12	2,427,840	4,896	10,808	20,307	3,600,000	3,600,000	175,375	699
13	2,435,040	99,936	10,297	21,847	3,604,416	3,604,416	175,865	718
14	492,480	2,478,240	8,911	18,921	3,580,800	3,580,800	174,500	697
15	940,320	3,845,088	9,149	20,188	3,643,392	3,643,392	182,425	695
16	1,478,016	1,958,688	8,071	18,172	3,621,120	3,621,120	172,115	693
17	1,804,320	7,200	11,557	23,128	3,180,480	3,180,480	165,675	696
18	1,851,840	3,744	8,855	18,018	4,008,384	4,008,384	154,575	693
19	5,500,224	7,200	7,791	20,286	4,100,544	4,100,544	159,570	696
20	9,573,984	3,168	9,436	19,733	4,165,824	4,165,824	141,320	697
21	9,004,608	0	8,799	19,264	4,308,864	4,308,864	119,560	693
22	10,687,104	0	8,267	19,733	4,164,672	4,164,672	116,885	691
23	9,671,040	2,016	9,163	20,720	4,162,368	4,162,368	108,120	698
24	10,048,896	2,304	9,541	20,174	4,093,824	4,093,824	114,495	707
25	13,364,928	288	9,051	20,013	3,839,040	3,839,040	108,595	369
26	17,182,080	0	8,750	18,200	3,976,512	3,976,512	117,860	728
27	17,647,488	0	9,905	20,853	4,196,160	4,196,160	120,940	709
28	15,300,864	0	9,905	22,477	4,337,856	4,337,856	116,835	694
29	14,200,992	0	9,023	19,341	4,299,072	4,299,072	110,770	705
Total	165,581,856	11,327,616	274,883	585,809	103,801,344	103,801,344	4,487,605	20,044

Table 36. San Luis Field Division Energy Data

(in kWh)

February 2004

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,530,720	1,050,720	0	0	2,706,624	594,624
2	1,249,920	766,920	489,600	489,600	1,443,168	651,168
3	1,201,968	832,968	0	0	2,155,680	1,275,680
4	1,037,376	668,376	0	0	1,939,104	751,104
5	1,328,544	959,544	0	0	2,899,296	1,799,296
6	1,325,808	956,808	0	0	1,592,064	712,064
7	1,319,472	950,472	0	0	3,036,672	1,848,672
8	1,411,056	1,051,056	0	0	3,161,664	1,049,664
9	1,347,408	978,408	0	0	1,425,888	1,161,888
10	1,482,624	1,113,624	290,592	290,592	1,921,824	997,824
11	1,680,336	1,311,336	0	0	2,757,024	2,141,024
12	1,579,248	1,210,248	936,864	936,864	1,575,936	1,575,936
13	1,643,760	1,274,760	0	0	1,357,920	1,357,920
14	1,575,072	1,206,072	0	0	1,486,656	1,398,656
15	1,512,720	1,152,720	0	0	2,885,184	1,829,184
16	1,444,464	1,075,464	0	0	1,678,752	1,370,752
17	1,435,824	1,066,824	0	0	1,730,880	1,730,880
18	1,240,992	871,992	0	0	1,622,304	1,622,304
19	1,136,016	767,016	0	0	2,454,624	2,454,624
20	1,206,720	837,720	0	0	3,795,552	3,795,552
21	1,144,512	775,512	0	0	2,916,288	2,432,288
22	937,872	577,872	0	0	5,513,760	3,401,760
23	762,768	393,768	0	0	2,481,984	1,689,984
24	684,144	315,144	0	0	6,381,216	5,589,216
25	555,408	186,408	0	0	6,431,328	5,523,328
26	794,880	623,880	0	0	4,789,152	3,416,152
27	796,176	625,176	0	0	4,693,824	3,019,824
28	775,728	604,728	0	0	5,279,328	3,605,328
29	910,656	742,656	0	0	7,040,736	2,864,736
Total	35,052,192	24,948,192	1,717,056	1,717,056	89,154,432	61,661,432

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

February 2004

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	11,130	27,952	33,300	29,898	33,462	1,893,888	2,101,680	4,750,272	17,703,360
2	6,432	16,080	24,786	24,678	26,406	1,233,576	1,376,064	3,117,024	11,545,920
3	6,576	17,008	33,606	31,320	33,606	1,352,520	1,619,856	3,464,064	12,880,080
4	7,192	16,736	34,470	32,634	35,118	1,246,752	1,404,144	3,158,784	11,624,400
5	14,610	37,936	46,332	43,416	46,224	1,259,640	1,391,688	3,161,088	11,473,920
6	16,250	41,008	34,038	32,544	35,586	1,260,936	1,373,832	3,112,992	11,546,640
7	16,644	44,000	34,614	32,328	35,172	1,226,880	1,367,496	3,082,176	11,530,800
8	12,976	33,504	34,488	31,194	34,848	1,329,336	1,493,352	3,362,976	12,399,120
9	10,600	27,368	36,054	34,956	37,188	1,392,696	1,571,184	3,530,880	13,097,520
10	11,938	29,632	34,632	32,076	34,848	1,445,328	1,581,768	3,584,448	13,403,520
11	12,012	30,576	36,576	35,028	38,286	1,398,816	1,554,120	3,542,400	13,037,040
12	11,644	29,312	39,456	37,476	40,230	1,391,112	1,530,792	3,424,032	12,701,520
13	9,270	23,104	35,712	33,192	37,026	1,390,392	1,516,896	3,408,192	12,495,600
14	7,896	19,568	45,234	42,768	45,000	1,336,608	1,476,288	3,343,104	12,656,880
15	6,060	14,072	41,724	38,916	43,866	1,467,216	1,624,392	3,661,344	13,296,240
16	4,520	11,192	34,776	32,886	35,532	1,326,672	1,458,144	3,292,128	12,226,320
17	6,438	15,584	40,410	37,854	41,310	1,320,120	1,481,832	3,344,544	12,342,240
18	7,120	16,656	37,386	36,000	38,790	1,219,248	1,317,528	2,958,048	10,861,200
19	5,472	12,928	34,092	32,706	35,082	1,117,368	1,228,752	2,795,040	10,424,160
20	8,910	21,808	34,884	31,392	34,074	1,243,656	1,394,568	3,166,272	11,581,920
21	7,890	20,200	37,188	36,072	39,096	1,163,664	1,260,288	2,869,920	10,599,120
22	7,496	17,888	35,064	32,580	36,072	1,025,856	1,151,568	2,592,288	9,289,440
23	6,290	14,800	22,896	20,934	23,040	700,272	762,336	1,736,064	6,428,160
24	4,960	11,328	31,051	30,600	32,040	590,616	681,120	1,550,016	5,519,520
25	5,882	13,448	32,135	31,145	33,624	442,152	482,688	1,103,328	4,068,000
26	7,960	19,936	31,600	29,415	17,100	676,152	715,176	1,581,120	5,869,440
27	6,726	16,288	31,185	29,465	31,925	615,888	691,488	1,571,616	5,748,480
28	8,660	21,904	27,915	26,435	29,155	554,760	635,616	1,377,792	5,070,960
29	6,074	13,960	32,020	29,905	32,665	682,128	733,320	1,669,824	6,172,560
Total	255,628	635,776	1,007,624	949,813	1,016,371	33,304,248	36,977,976	83,311,776	307,594,080

Table 38. Southern Field Division Energy Data

(in kWh)

February 2004

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	1,011,360	1,737,432	2,640,000	425,600	2,526,288	3,640,992	290,451
2	564,592	1,432,944	2,160,000	324,520	1,858,632	3,729,600	234,486
3	618,576	1,404,720	2,160,000	362,880	2,161,896	3,533,568	272,139
4	607,208	1,422,576	2,160,000	302,260	1,737,360	3,150,048	198,450
5	602,168	1,402,776	2,160,000	305,900	1,758,120	3,002,304	192,318
6	616,784	1,273,968	2,160,000	311,584	1,944,696	3,417,312	245,049
7	511,168	1,337,760	2,160,000	346,584	1,895,268	3,381,600	200,319
8	678,160	1,137,672	2,160,000	352,240	2,028,768	3,539,040	231,567
9	717,024	1,579,536	2,640,000	328,720	1,928,472	3,658,656	253,890
10	748,888	1,571,976	2,640,000	340,004	1,943,328	3,477,312	233,520
11	704,480	1,503,360	2,640,000	339,136	1,837,656	3,405,120	229,593
12	719,544	1,590,120	2,640,000	316,736	1,954,692	3,375,936	193,746
13	748,440	1,541,592	2,640,000	313,096	1,790,592	3,632,640	222,453
14	648,704	1,603,368	2,640,000	353,388	1,858,464	3,357,888	213,990
15	717,584	1,831,104	2,640,000	372,512	1,965,396	3,354,912	209,580
16	674,520	1,382,832	2,280,000	307,468	1,780,620	3,229,824	234,864
17	653,352	1,379,304	2,280,000	334,012	1,903,536	3,204,768	214,179
18	674,128	1,342,656	2,280,000	257,012	1,470,888	2,868,672	148,428
19	656,712	1,398,024	2,280,000	237,272	1,590,336	2,829,408	175,287
20	620,368	1,389,528	2,280,000	282,268	1,511,016	2,775,840	167,832
21	721,224	1,445,040	2,280,000	229,208	1,247,232	2,584,512	154,119
22	565,376	1,448,928	2,280,000	236,012	1,400,424	2,536,416	151,137
23	221,480	348,840	480,000	235,144	1,324,416	2,704,416	154,182
24	192,808	337,680	480,000	202,636	1,208,184	2,568,096	141,351
25	121,184	272,808	720,000	167,440	783,408	2,553,600	91,581
26	135,240	300,744	720,000	240,352	1,525,164	2,481,408	155,148
27	262,808	757,368	720,000	190,428	971,748	2,555,328	104,433
28	123,872	250,632	720,000	208,656	1,074,180	2,608,224	128,856
29	139,720	247,752	720,000	272,608	1,547,664	2,570,496	180,999
Total	15,977,472	34,673,040	56,760,000	8,495,676	48,528,444	89,727,936	5,623,947